



Material Safety Data Sheet
For Armco Products

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Armco Inc.
General Offices
703 Curtis Street
Middletown, Ohio 45043

Section I

PRODUCT NAME OR NUMBER 6AL-4V PWA-1215 Triple Melt to E-522F-12		EMERGENCY TELEPHONE NUMBER 513/425-5864
MANUFACTURING FACILITY, COMPANY OR SUBSIDIARY OREGON METALLURGICAL CORPORATION		
ADDRESS (NUMBER, STREET, STATE AND ZIP CODE) 530 W. 34th Ave., Albany, OR 97321		
DOT HAZARDOUS MATERIAL PROPER SHIPPING NAME (49 CFR 172.101) N/A		DOT HAZARD CLASS (49 CFR 172.101) N/A
CHEMICAL FAMILY Titanium Alloy	ERG HAZARDOUS WASTE NO. N/A	DOT IDENTIFICATION NO. (49 CFR 172.101) N/A

Section II CHEMICAL COMPONENTS

	C.A.S. NUMBER	%
Titanium	7440-32-6	90
Aluminum	7429-90-5	6
Vanadium	7440-62-2	4

Section III PHYSICAL DATA

Boiling Point	N/A	Solubility in Water	Insoluble	Evaporative Rate (Ethyl ether = 1)	N/A
Vapor Pressure mm Hg @ 20°C	N/A	Specific Gravity (H ₂ O = 1)	4.5	pH =	N/A
Vapor Density (Air = 1)	N/A	Percent Volatile by Volume	0		N/A
APPEARANCE AND ODOR Odorless gray ingots and billets					

Section IV FIRE AND EXPLOSION HAZARD DATA

CLOSED CUP FLASH POINT °F	N/A	LEL N/A %	UEL N/A %	IGNITION TEMPERATURE °F	N/A
EXTINGUISHING MEDIA Dry salt or powder extinguisher for metal fire, inert gas (Argon, Helium)					
SPECIAL FIRE FIGHTING PROCEDURES Remove uninvolved material, allow fire to burn out. Cover involved material with salt or powder from extinguisher. If fire in container, smother with inert gas.					
UNUSUAL FIRE AND EXPLOSION HAZARDS Do not use water or other liquid extinguishers as hydrogen may be evolved.					
Nitrogen and carbon dioxide are ineffective.					

00782

Section V EFFECTS OF EXPOSURE, EMERGENCY AND FIRST AID PROCEDURES

No toxic effects would be expected under normal usage. The "nuisance dust" standard would apply.

Section VI REACTIVITY DATA

STABLE <input checked="" type="checkbox"/>	UNSTABLE <input type="checkbox"/>	CONDITIONS TO AVOID Open flames, excessive heat
INCOMPATIBILITY (MATERIALS TO AVOID)		Strong oxidizing or reducing agents
DECOMPOSITION PRODUCTS		Titanium dioxide, aluminum oxide, vanadium pentoxide
HAZARDOUS POLYMER- IZATION	MAY OCCUR <input type="checkbox"/> WILL NOT OCCUR <input checked="" type="checkbox"/>	CONDITIONS TO AVOID N/A

Section VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Recover material if possible
WASTE DISPOSAL METHOD Landfill in accordance with applicable local, state and federal regulations

Section VII PERSONNEL PROTECTION INFORMATION

No special precautions

Section IX SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

Store as a combustible material - hard to ignite, but very difficult to extinguish. The smaller the particles, the greater the fire hazard.

While the information and recommendations set forth on this data sheet are believed to be accurate as of the present date, ARMCO MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

Prepared by: STEPHEN S. FELTON
Corporate Toxic Substances Engineer

Stephen S. Felton
SIGNATURE AND DATE

10/15/84

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